

COMMONWEALTH OF VIRGINIA
Department of Environmental Quality
Valley Regional Office

STATEMENT OF LEGAL AND FACTUAL BASIS
Significant Permit Modification

Global Stone Chemstone Corporation
P.O. Box 219
508 Quarry Lane
Clear Brook, Virginia 22624
Permit No. VRO80504
Effective Date: November 30, 2001
Expiration Date: November 30, 2006

Title V of the 1990 Clean Air Act Amendments required each state to develop a permit program to ensure that certain facilities have federal Air Pollution Operating Permits, called Title V Operating Permits. As required by 40 CFR Part 70 and 9 VAC 5 Chapter 80, Global Stone Chemstone Corporation has applied for a significant permit modification to the Title V Operating Permit for its lime manufacturing facility in Clear Brook, Virginia. The Department has reviewed the application and has prepared a draft Title V Operating Permit.

Engineer/Permit Contact: _____ Date: 3/8/05

Air Permit Manager: _____ Date: 3/8/05

Deputy Regional Director: _____ Date: 3/8/05

REQUESTED MODIFICATION

The Valley Regional Office received a request from Global Stone Chemstone Corporation (Chemstone) on August 12, 2004, including supplemental information received September 14, 2004 and amendment information received September 24, 2004, for changes to its Title V operating permit for its facility in Clear Brook, Virginia. The facility has requested that the permit be modified to change the responsible official, change the contact person, and incorporate the permit conditions from the minor NSR permit dated January 22, 2003 for the installation of one 24" x 200' Hoover belt conveyor (MP-BC-14). The requested changes are considered a significant modification to the Title V permit, as defined in 9 VAC 5-80-230.

REASON FOR MODIFICATION

On January 22, 2003, Chemstone was issued a minor NSR permit to install and operate one 24" x 200' Hoover belt conveyor (MP-BC-14). The following permit conditions from the minor NSR permit are new applicable requirements. Condition numbers refer to those contained in the attached minor NSR permit dated January 22, 2003. The Title V permit will be modified to incorporate these new applicable requirements.

Condition 30: Visible emissions from the Hoover belt conveyor (MP-BC-14) shall not exceed 10% opacity as determined by EPA Method 9 (reference 40 CFR 60, Appendix A). This condition applies at all times except during startup, shutdown, and malfunction.

Condition 31: Except where this permit is more restrictive than the applicable requirement, the Hoover belt conveyor (MP-BC-14) shall be operated in compliance with the requirements of 40 CFR 60, Subpart OOO.

Condition 32: Initial visible emission evaluations (VEE) in accordance with 40 CFR Part 60, Appendix A, Method 9, shall be conducted on the Hoover belt conveyor (MP-BC-14) transfer points.

Condition 33: Requirement allowing the reduction of observations during initial visible emission evaluations (VEE) on the Hoover belt conveyor (MP-BC-14) if there are no individual readings greater than 10% opacity and no more than three readings of 10% opacity for the one-hour period.

Condition 35: Initial notification requirements for the Hoover belt conveyor (MP-BC-14), including the actual date of installation, the actual start-up date, and the anticipated date of the visible emission evaluations on the transfer points.

Condition 38: Requirement stating that the permit to modify the lime manufacturing facility by installing the Hoover belt conveyor (MP-BC-14) shall become invalid if installation is not commenced, is discontinued, or is not completed within certain time periods.

APPLICABILITY OF 9 VAC 5-80-230

According to 9 VAC 5-80-230, significant modification procedures must be used for those permit modifications that do not qualify as minor permit modifications under 9 VAC 5-80-210 or as administrative amendments under 9 VAC 5-80-200. Chemstone's proposal does not meet the specifications for administrative amendment or minor permit modification. The Regulations further list criteria, any of which, if met, require use of significant modification procedures. The changes proposed by Chemstone meet the following criterion stated in 9 VAC 5-80-230.A.2:

Significant modification procedures shall be used for those permit modifications that require or change a case-by-case determination of an emission limitation or other standard,...

This is because the Title V permit modification requires the establishment of emission limitations and standards through the incorporation of the new applicable requirements in the minor NSR permit January 22, 2003 for the installation of one 24' x 200' Hoover belt conveyor (MP-BC-14). Since the changes proposed by Chemstone meet at least one criterion listed in 9 VAC 5-80-230 and do not qualify as an administrative amendment or minor permit modification, the changes must be processed as a significant permit modification.

CHANGES TO TITLE V OPERATING PERMIT

The changes made to the existing Title V permit are shown below. Condition and section numbers refer to those in the modified Title V permit.

Section I: Changed the name of the responsible official, updated the facility address, and changed the name of the contact person.

Section II: Added the Hoover belt conveyor (MP-BC-14) from Condition 2 of the minor NSR permit dated January 22, 2003. Updated this entire section to reflect the equipment list from the original Title V permit effective November 30, 2001. A different equipment list was used for the minor modification to the Title V permit on March 14, 2003, although no changes to the original equipment list were warranted as a result of the minor modification.

Conditions III.A.3 and III.A.4: Revised to only list specific emission units for which each condition is applicable, rather than referencing all emission units in the Main Plant.

Conditions III.A.5: Added requirement from Condition 30 of the minor NSR permit dated January 22, 2003 that visible emissions from the Hoover belt conveyor (MP-BC-14) shall not exceed 10% opacity as determined by the EPA Method 9 (reference 40 CFR 60, Appendix A).

Condition IV.A.5: Changed LP-DC-12 to LP-BC-12. This was a typographical error.

Condition IV.C.10: Changed Subpart A to 40 CFR 60, Subpart A for clarification.

Section VIII: Removed 40 CFR Part 60, Subpart OOO as an inapplicable requirement since the Hoover belt conveyor (MP-BC-14) from the minor NSR permit dated January 22, 2003 is subject to this subpart.

Section IX: Updated General Conditions IX.F and IX.J and IX.V to reflect current regulations and regulatory citations. Note that a condition for asbestos requirements was not included in the current Title V permit and is not included in the modified Title V permit. A DEQ memorandum dated October 18, 2001 (in response to a public comment dated October 8, 2001) indicated that although there were no geology reports for this specific source, similar quarries in the Middletown and Winchester areas of Frederick County were tested in the 1980's and found to not contain any asbestos materials.

Any regulatory reference to the date of the minor NSR permit has been changed from October 4, 2000 to January 22, 2003 in all table and citations of the modified Title V permit. It should be noted that various requirements for the Main Plant in Section III of the existing Title V permit are also applicable to the Hoover belt conveyor (MP-BC-14), although no changes are necessary in the modified Title V permit to include this conveyor. The specific conditions in Section III of the modified Title V permit that are applicable include Conditions A.2, A.7, B.1, B.2, B.3, B.4.b, B.4.c, B.4.d, and C.

The following conditions in the minor NSR permit dated January 22, 2003 have not been included in the modified Title V permit for the reasons provided.

Condition 31: This requirement states that except where the (minor NSR) permit is more restrictive than the applicable requirement, the Hoover belt conveyor (MP-BC-14) shall be operated in compliance with the requirements of 40 CFR 60, Subpart OOO. This requirement has not been included in the modified Title V permit since each requirement from 40 CFR 60, Subpart OOO that is more stringent has already been included in the modified Title V permit.

Conditions 32 and 33: Initial visible emission evaluation (VEE) requirements for the Hoover belt conveyor (MP-BC-14) are no longer applicable since the VEE was completed on September 11, 2003.

Condition 35: Initial notifications for the Hoover belt conveyor (MP-BC-14) are no longer applicable since written notifications were received for the actual date of installation (May 12, 2003), the actual start-up date (June 18, 2003), and the anticipated date of the VEE (September 11, 2003).

Condition 38: Permit invalidation requirements for the Hoover belt conveyor (MP-BC-14) are no longer applicable since installation was completed.

The following conditions in the existing Title V permit have not been included in the modified Title V permit for the reasons provided.

Condition IV.A.26: This requirement stated that except where the (minor NSR) permit was more restrictive than the applicable requirement, the rotary lime kiln (LP-RK-1) shall be operated in compliance with the requirements of 40 CFR 60, Subpart HH and 40 CFR 60, Subpart A. This requirement has not been included in the modified Title V permit since each requirement from 40 CFR 60, Subpart HH and 40 CFR, Subpart A that is more stringent has already been included in the modified Title V permit.

Condition V.A.18: Permit invalidation requirements for the Lime Loadout Facility are no longer applicable since the facility was installed on November 5, 2000. (This was a previously applicable requirement that was already removed from the minor NSR permit dated January 22, 2003).

PUBLIC PARTICIPATION

The public participation requirements of 9 VAC 5-80-270 apply to significant permit modifications. Accordingly, a 30-day public comment period was announced in the Winchester Star on January 21, 2005. The public comment period expired on February 20, 2005 with no comments received.

The requirements of 9 VAC 5-80-290 for review by EPA and affected states also apply to significant permit modifications. EPA was notified of the public notice and sent a copy of the draft permit on January 20, 2004. The 45-day EPA review period expired on March 7, 2005 with no comments received. The affected states (as defined in 9 VAC 5-80-60) of West Virginia, Pennsylvania, and Maryland were notified of the drafting of the significant modification at the beginning of the public comment period. No comments were received from the affected states.

ATTACHMENT

Minor NSR Permit Dated January 22, 2003

ATTACHMENT

Minor NSR Permit Dated January 22, 2003

January 23, 2003

Mr. Joseph Ferrell
Vice President and Area Manager
Global Stone Chemstone Corporation
1 Quarry Lane
Clear Brook, Virginia 22624

Facility: Winchester Plant
Location: Frederick County
Registration No.: 80504
NET ID No.: 51-069-0034

Dear Mr. Ferrell:

Attached is a significant amendment to your new source review permit dated October 4, 2000 to modify and operate a lime manufacturing facility in accordance with the provisions of the Commonwealth of Virginia State Air Pollution Control Board Regulations for the Control and Abatement of Air Pollution. This amended permit supersedes your permit dated October 4, 2000.

The amended permit contains legally enforceable conditions. Failure to comply may result in a Notice of Violation and civil penalty. Please read all permit conditions carefully.

In the course of evaluating the application and arriving at a final decision to approve the project, the Department of Environmental Quality (DEQ) deemed the application complete on October 28, 2002 and has determined that the application meets the requirements of 9 VAC 5-80-1290 for a significant amendment to a new source review permit.

This approval to modify and operate shall not relieve Global Stone Chemstone Corporation of the responsibility to comply with all other local, state, and federal permit regulations.

The Board's Regulations as contained in Title 9 of the Virginia Administrative Code 5-170-200 provides that you may request a formal hearing from this case decision by filing a petition with the Board within 30 days after this case decision notice was mailed or delivered to you.

9 VAC 5-170-180 provides that you may request direct consideration of the decision by the Board if the Director of the DEQ made the decision. Please consult the relevant regulations for additional requirements for such requests.

As provided by Rule 2A:2 of the Supreme Court of Virginia, you have 30 days from the date of service of this decision (the date you actually received this decision or the date on which it was mailed to you, whichever occurred first), within which to initiate an appeal of this decision by filing a Notice of Appeal with:

Robert G. Burnley, Director
Department of Environmental Quality
P.O. Box 10009
Richmond, Virginia 23240-0009

In the event that this decision is served on you by mail, three days are added to the period in which to file an appeal. Please refer to Part Two A of the Rules of the Supreme Court of Virginia for information on the required content of the Notice of Appeal and for additional requirements governing appeals from decisions of administrative agencies.

If you have any questions concerning this permit, please call Jodi Keller of the Valley Regional Office at (540) 574-7818.

Sincerely,

Larry M. Simmons

Larry M. Simmons, P.E.
Deputy Regional Director

Attachments: Permit
NSPS, Subpart OOO
NSPS, Subpart HH

cc: Director, OAPP (electronic file submission)
Manager, Data Analysis (electronic file submission)
Chief, Air Enforcement Branch (3AP13), U.S. EPA, Region III

STATIONARY SOURCE PERMIT TO MODIFY AND OPERATE

**This permit includes designated equipment subject to
New Source Performance Standards (NSPS).**

This permit supersedes your permit dated October 4, 2000.

In compliance with the Federal Clean Air Act and the Commonwealth of Virginia Regulations
for the Control and Abatement of Air Pollution,

Global Stone Chemstone Corporation
1 Quarry Lane
Clear Brook, Virginia 22624
Registration No.: 80504
County-Plant No.: 51-069-0034

is authorized to modify and operate

a lime manufacturing facility

located at

1 Quarry Lane
Frederick County, Virginia

in accordance with the Conditions of this permit.

Approved on January 22, 2003

Larry M. Simmons
for Director, Department of Environmental Quality

Permit consists of 14 pages.

Permit Conditions 1 to 47.

Attachment A - Previously Permitted Equipment List.

Attachment B - Exempt Equipment List.
Source Testing Report Format.

PERMIT CONDITIONS - the regulatory reference and authority for each condition is listed in parenthesis () after each condition.

1. Except as specified in this permit, the permitted facility is to be modified and operated as represented in the permit applications dated July 11, 1986, May 19, 1998, July 27, 2000 and October 25, 2002 including amendment sheets dated May 3, 1993, March 13, 1997, April 24, 1998, June 11, 1998, August 17, 1998, October 8, 1998, May 7, 1999, November 12, 1999 and August 25, 2000. Any changes in the permit application specifications or any existing facilities which alter the impact of the facility on air quality may require a permit. Failure to obtain such a permit prior to construction may result in enforcement action.
(9 VAC 5-50-390 and 9 VAC 5-80-1210D)

2. **Equipment List** – Equipment to be installed and operated at this facility consists of:

- one 24” x 200’ Hoover belt conveyor (MP-BC-14) rated at 150 tons per hour, NSPS Subpart OOO.

Previously permitted equipment is listed in Attachment A.

Exempt equipment is listed in Attachment B.

(9 VAC 5-80-1100)

Rotary Lime Kiln Conditions

3. **Emission Controls** - Particulate emissions from the kiln shall be controlled by a four module fabric filter baghouse (LP-BH2405, LP-BH2406, LP-BH2407, and LP-BH2408). The fabric filter baghouse shall be provided with adequate access for inspection. The filter shall be equipped with a device to continuously measure the differential pressure across the modules. The device shall be installed in an accessible location and shall be maintained by the permittee such that it is in proper working order at all times.
(9 VAC 5-80-10 H and 9 VAC 5-50-260)
4. **Monitoring Devices** - The lime kiln shall be provided with a continuous opacity monitoring system (COMS) conforming to the requirements of New Source Performance Standards (NSPS), Subpart HH.
(9 VAC 5-50-410 HH and 9 VAC 5-170-160)
5. **Feed Monitoring Devices** - The lime kiln shall be equipped with a device for measuring the feed rate of limestone, accurate to + or - 5%.
(9 VAC 5-50-410 HH)

6. **Production and Throughput** - The annual production of lime shall not exceed 168,000 tons per year, calculated monthly as the sum of each consecutive 12 month period. This production is limited to a total throughput of 336,000 tons of limestone per year, calculated monthly as the sum of each 12 consecutive month period.
(9 VAC 5-80-10 H)
7. **Fuel** - The approved fuels for the lime kiln are coal, natural gas, and distillate oil. Use of a different fuel may require a permit to modify and operate.
(9 VAC 5-80-10)
8. **Fuel Specifications** – The distillate oil shall meet the specifications below:

DISTILLATE OIL which meets ASTM D396-78 specifications for numbers 1 or 2 fuel oil:
Maximum sulfur content per shipment: 0.5%

(9 VAC 5-80-10)
9. **Fuel Specifications** - The sulfur and ash content of the coal to be burned in the lime kiln shall not exceed 1.90 percent and 16 percent by weight, respectively, per shipment.
(9 VAC 5-170-160)
10. **Fuel Certification** – The permittee shall obtain a certification from the fuel supplier with each shipment of distillate oil. Each fuel supplier certification shall include the following:
 - a. The name of the fuel supplier;
 - b. The date on which the distillate oil was received;
 - c. The volume of distillate oil delivered in the shipment;
 - d. A statement that the distillate oil complies with the American Society for Testing and Material specifications D396-78 for numbers 1 or 2 fuel oil, and
 - e. The sulfur content of the distillate oil.
(9 VAC 5-170-160 and 9 VAC 5-50-410)
11. **Emission Limits** - Emissions from the operation of the lime kiln shall not exceed the limits

specified below:

Particulate Matter	4.8 lbs/hr	19.2 tons/yr
PM-10	4.3 lbs/hr	17.3 tons/yr
Sulfur Dioxide	121.4 lbs/hr	490.1 tons/yr
Nitrogen Dioxides	60.9 lbs/hr	245.7 tons/yr
Carbon Monoxide	15.1 lbs/hr	61.0 tons/yr

(9 VAC 5-50-260 and 9 VAC 5-50-410)

12. **Visible Emission Limit** – Visible emissions from the lime kiln baghouse stack (LP-EP-1) shall not exceed 5% opacity as determined using EPA Method 9 (40 CFR 60, Appendix A).
(9 VAC 5-50-80 and 9 VAC 5-50-410)
13. **Visible Emission Limit** - Fugitive visible emissions from the rotary lime kiln shall not exceed 10% percent opacity as determined by EPA Method 9 (reference 40 CFR 60, Appendix A). This condition applies at all times except during startup, shutdown and malfunction.
(9 VAC 5-50-80 and 9 VAC 5-50-260)
14. **Requirements by Reference** – Except where this permit is more restrictive than the applicable requirement, the rotary lime kiln (LP-RK-1) shall be operated in compliance with the requirements of 40 CFR 60, Subpart HH.
(9 VAC 5-50-400 and 9 VAC 5-50-410)

Lime Finishing and Loadout Conditions

15. **Emission Controls** - Particulate emissions from the hammermill (LL-HM-1) shall be controlled by a baghouse (LL-DC-1). The baghouse shall be provided with adequate access for inspection.
(9 VAC 5-50-260)
16. **Emission Controls** - Particulate emissions from loading the previously permitted four lime storage silos (reference Attachment A, LP-SB-1) shall be controlled by a baghouse (LP-DC-2525). The baghouse shall be provided with adequate access for inspection.
(9 VAC 5-50-260)
17. **Emission Controls** - Particulate emissions from unloading of the previously permitted four lime storage silos (reference Attachment A, LP-SB-1) shall be controlled by covered conveyors and

baghouses (LL-DC-2532 and LP-DC-2341). The baghouses shall be provided with adequate access for inspection.

(9 VAC 5-50-260)

18. **Emission Controls** - Particulate emissions from the belt conveyors (LS-CB-1, 2 and 3), storage bins (LS-SS-2, 3, 4 and 5) and screen (LS-S) included in the Lime Loadout Facility (referenced in Attachment A) shall be controlled by a fabric filter baghouse (LS-DC-1). The baghouse shall be provided with adequate access for inspection. The baghouse shall be equipped with a device to continuously measure the differential pressure across the fabric filter. The device shall be installed in an accessible location and shall be maintained by the permittee such that it is in proper working order at all times.
(9 VAC 5-50-260 and 9 VAC 5-80-10 H)
19. **Emission Controls** - Particulate emissions from belt conveyors (LS-CB-4, 5, 6 and 7), storage bins (LS-SS-1 and 6), screw conveyor (SC-2) and loadout dust controlling spouts (LS-1, 2 and 3) included in the Lime Loadout Facility (reference Attachment A) shall be controlled by a fabric filter baghouse (LS-DC-2). The baghouse shall be provided with adequate access for inspection. The baghouse shall be equipped with a device to continuously measure the differential pressure across the fabric filter. The device shall be installed in an accessible location and shall be maintained by the permittee such that it is in proper working order at all times.
(9 VAC 5-50-260 and 9 VAC 5-80-10 H)
20. **Emission Controls** - Particulate emissions from the Jeffery Crusher (LS-C) which is included in the Lime Loadout Facility (reference Attachment A) shall be controlled by an existing fabric filter baghouse (LP-DC-2532). The baghouse shall be provided with adequate access for inspection. The baghouse shall be equipped with a device to continuously measure the differential pressure across the fabric filter. The device shall be installed in an accessible location and shall be maintained by the permittee such that it is in proper working order at all times.
(9 VAC 5-50-260 and 9 VAC 5-80-10 H)
21. **Fugitive Dust Emission Controls** - Fugitive emission controls shall include the following, or equivalent, as a minimum:
 - a. Dust from drills, shot piles, material handling, screens, crushers, load-outs, and traffic areas shall be controlled by wet suppression or equivalent.
 - b. All material being stockpiled shall be kept adequately moist to control dust during storage and handling or covered at all times to minimize emissions.

- c. Dust from haul roads and traffic areas shall be controlled by the application of asphalt, water, suitable chemicals, or equivalent methods approved by the DEQ.
- d. Reasonable precautions shall be taken to prevent deposition of dirt on public roads and subsequent dust emissions. Trucks leaving the site shall have clean wheels - achieved by use of a wheel washer **or** equivalent. Dirt, product, or raw material spilled or tracked onto paved surfaces shall be promptly removed to prevent particulate matter from becoming airborne.

(9 VAC 5-50-260 and 9 VAC 5-50-90)

- 22. **Production** - The yearly production of lime from the hammermill (LL-HM-1) shall not exceed 336,000 tons, calculated monthly as the sum of each consecutive 12-month period.
(9 VAC 5-80-10 H)
- 23. **Throughput** - The yearly throughput of lime to the previously permitted four lime storage silos (reference Attachment A, LP-SB-1) shall not exceed 168,000 tons, calculated monthly as the sum of each consecutive 12-month period.
(9 VAC 5-80-10 H)
- 24. **Throughput** - The yearly throughput of lime to the Lime Loadout Facility (equipment listed in Attachment A) shall not exceed 168,000 tons, calculated monthly as the sum of each consecutive 12-month period.
(9 VAC 5-80-10 H)
- 25. **Emission Limits** - Emissions from the operation of the hammermill (LL-HM-1) shall not exceed the limitations specified below:

Particulate Matter	0.022 gr/dscf	1.2 tpy
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(9 VAC 5-50-260)
- 26. **Emission Limits** - Emissions from the operation of the Lime Loadout Facility (equipment listed in Attachment A) shall not exceed the limitations specified below:

Particulate Matter	0.022 gr/dscf	0.5 tpy
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(9 VAC 5-50-260)
- 27. **Visible Emission Limit** - Visible emissions from each of the following baghouses: LL-DC-1, LP-DC-2525, LP-DC-2532, LP-DC-2341, LS-DC-1 and LS-DC-2, shall not exceed 5% opacity as determined using EPA Method 9 (40 CFR 60, Appendix A).
(9 VAC 5-50-80, 9 VAC 5-50-260 and 9 VAC 5-50-410)

28. **Visible Emission Limit** - Visible emissions from any fugitive emission point associated with the Lime Loadout Facility (equipment listed in Attachment A) shall not exceed 10% opacity, in accordance with 40 CFR, Part 60, Appendix A, Method 9.
(9 VAC 5-50-410 and 9 VAC 5-50-80)

Facility Wide Conditions

29. **Test/Monitoring Ports** - The permitted facility shall be constructed so as to allow for emissions testing and monitoring upon reasonable notice at any time, using appropriate methods. Test ports shall be provided at the appropriate locations.
(9 VAC 5-50-30 F)
30. **Visible Emission Limit** - Visible emissions from Hoover belt conveyor (MP-BC-14) transfers shall not exceed 10% opacity as determined by EPA Method 9 (reference 40 CFR 60, Appendix A). This condition applies at all times except during startup, shutdown, and malfunction.
(9 VAC 5-50-80 and 9 VAC 5-50-1180)
31. **Requirements by Reference** – Except where this permit is more restrictive than the applicable requirement, the Hoover belt conveyor (MP-BC-14) shall be operated in compliance with the requirements of 40 CFR 60, Subpart OOO.
(9 VAC 5-50-400 and 9 VAC 5-50-410)

INITIAL COMPLIANCE DETERMINATION

32. **Visible Emissions Evaluation** – Visible Emission Evaluations (VEE) in accordance with the 40 CFR Part 60, Appendix A, Method 9, shall be conducted on the following equipment: Hoover belt conveyor (MP-BC-14) transfer points. Each test shall consist of 30 sets of 24 consecutive observations (at 15 second intervals) to yield a six minute average. The details of the tests are to be arranged with the Director, Valley Regional Office. The evaluation shall be performed and demonstrate compliance within 60 days after achieving the maximum production rate at which the facility will be operated but in no event later than 180 days after start-up of the permitted facility. Two copies of the test result shall be submitted to the Director, Valley Regional Office within 45 days after test completion and shall conform to the test report format enclosed with this permit.
(9 VAC 5-50-30)
33. **Visible Emissions Evaluation**- Visible Emission Evaluations required, in Condition 32, on the Hoover belt conveyor (MP-BC-14) may be reduced to 10 sets of 24 consecutive observations (at fifteen second intervals) to yield a six minute average if:

- a. There are no individual readings greater than 10% opacity for the Hoover belt conveyor (MP-BC-14), and
- b. There are no more than three readings of 10% opacity for the one hour period for Hoover belt conveyor (MP-BC-14).

(40 CFR 60.675 (C)(3) and 9 VAC 5-50-410)

CONTINUING COMPLIANCE

- 34. **Visible Emissions Evaluation** – Upon request by the DEQ, the permittee shall conduct additional visible emission evaluations from Lime load out facility or baghouse controls to demonstrate compliance with the visible emission limits contained in the permit. The details of the tests shall be arranged with the Director, Valley Regional Office.
(9 VAC 5-50-30 G)

NOTIFICATIONS & RECORDS

- 35. **Initial Notifications** - The permittee shall furnish written notification to the Director, Valley Regional Office:
 - a. The actual date on which installation of the Hoover belt conveyor (MP-BC-14) commenced within 30 days after such date.
 - b. The actual start-up date of the Hoover belt conveyor (MP-BC- 14) within 15 days after such date.
 - c. The anticipated date of the visible emission evaluation of the Hoover belt conveyor transfer points postmarked at least 30 days prior to such date.

Copies of the written notification referenced in items a through c above are to be sent to:

Associate Director
Office of Air Enforcement (3AP10)
U.S. Environmental Protection Agency
Region III
1650 Arch Street
Philadelphia, PA 19103-2029

(9 VAC 5-50-50)

36. **On Site Records** - The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the Director, Valley Regional Office. These records shall include, but are not limited to:
- a. The monthly and annual production of lime, in tons. The annual throughput shall be calculated monthly as the sum of each consecutive 12-month period.
 - b. The number of hours of operation of the lime kiln.
 - c. The monthly and annual consumption of limestone, in tons. Monthly consumption shall be calculated from records of the feed rate measuring device. The annual consumption shall be calculated monthly as the sum of each consecutive 12-month period.
 - d. Coal shipments purchased, indicating sulfur and ash content per shipment. A copy of the coal purchase agreement which specifies the sulfur content and maximum ash limits shall be maintained with these records. Each shipment shall be defined as 1,000 tons. Each shipment shall be sampled by 35 incremental, 6 pound samples, to develop a representative sample of the shipment. A final sample shall be drawn from this mass.
 - e. The monthly and annual throughput of coal, in tons. The annual consumption shall be calculated monthly as the sum of each consecutive 12-month period.
 - f. The monthly and annual throughput of natural gas, in million cubic feet. The annual consumption shall be calculated monthly as the sum of each consecutive 12-month period.
 - g. The monthly and annual throughput of distillate oil, in gallons. The annual consumption shall be calculated monthly as the sum of the consecutive 12-month period.
 - h. All fuel supplier certifications.
 - i. Quarterly COMS opacity data from the lime kiln stack (LP-EP-1).
 - j. Results of all performance tests and visible emissions evaluations.
 - k. The monthly and annual production of lime, in tons, to the hammermill (LL-HM-1). The annual throughput shall be calculated monthly as the sum of each consecutive 12-month period.
 - l. The annual throughput of lime, in tons, to the four lime storage silos. The annual throughput shall be calculated monthly as the sum of each consecutive 12-month period.

- m. The annual throughput of lime, in tons, processed by the Lime Loadout Facility (referenced in Attachment A), calculated monthly as the sum of each consecutive 12-month period.

These records shall be available for inspection by the DEQ and shall be current for the most recent five years.

(9 VAC 5-50-50)

REPORTING

- 37. **Reporting** - The permittee shall submit Quarterly Excess Emissions Reports which shall include all six-minute periods during which the average opacity of the visible emissions from the rotary lime kiln (LP-RK-1) is greater than 15%. Reports shall follow the format provided in 40 CFR 60.7(c) and shall be submitted to:

Associate Director
Air Enforcement Branch (3AP10)
U. S. Environmental Protection Agency
Region III
1650 Arch Street
Philadelphia, PA 19103-2029

Reports shall be postmarked by the 30th day following the end of each calendar quarter.

A copy of the report shall also be submitted to the Director, Valley Regional Office.

(9 VAC 5-50-260, 9 VAC 5-50-400 and 9 VAC 5-50-410)

GENERAL CONDITIONS

- 38. **Permit Invalidity** - The portions of this permit to modify the lime manufacturing facility, by installing a 24" x 200' Hoover belt conveyor (MP-BC-14), shall become invalid, unless an extension is granted by the DEQ, if:
 - a. A program of continuous installation is not commenced before the latest of the following:
 - i. 18 months from the date of this permit;
 - ii. Nine months from the date that the last permit or other authorization was issued from any other governmental agency;
 - iii. Nine months from the date of the last resolution of any litigation concerning any

such permits or authorization; or

- b. A program of installation is discontinued for a period of 18 months or more, or is not completed within a reasonable time, except for a DEQ approved period between phases of a phased construction project.

(9 VAC 5-80-1210)

39. **Right of Entry** - The permittee shall allow authorized local, state, and federal representatives, upon the presentation of credentials:

- a. To enter upon the permittee's premises on which the facility is located or in which any records are required to be kept under the terms and conditions of this permit;
- b. To have access to and copy at reasonable times any records required to be kept under the terms and conditions of this permit or the State Air Pollution Control Board Regulations;
- c. To inspect at reasonable times any facility, equipment, or process subject the terms and conditions of this permit or the State Air Pollution Control Board Regulations; and
- d. To sample or test at reasonable times.

For purposes of this condition, the time for inspection shall be deemed reasonable during regular business hours or whenever the facility is in operation. Nothing contained herein shall make an inspection time unreasonable during an emergency.

(9 VAC 5-170-130)

40. **Notification for Control Equipment Maintenance** - The permittee shall furnish notification to the Director, Valley Regional Office, of the intention to shut down or bypass, or both, air pollution control equipment for necessary scheduled maintenance, which results in excess emissions for more than one hour, at least 24 hours prior to the shutdown. The notification shall include, but is not limited to, the following information:

- a. Identification of the air pollution control equipment to be taken out of service, as well as its location, and registration number;
- b. The expected length of time that the air pollution control equipment will be out of service;
- c. The nature and quantity of emissions of air pollutants likely to occur during the shutdown period;

- d. Measures that will be taken to minimize the length of the shutdown or to negate the effect of the outage.

(9 VAC 5-20-180 B)

- 41. **Notification for Facility or Control Equipment Malfunction** - The permittee shall furnish notification to the Director, Valley Regional Office, of malfunctions of the affected facility or related air pollution control equipment that may cause excess emissions for more than one hour, by facsimile transmission, telephone or telegraph. Such notification shall be made as soon as practicable but not later than four daytime business hours after the malfunction is discovered. The permittee shall provide a written statement giving all pertinent facts, including the estimated duration of the breakdown, within 14 days of the discovery. When the condition causing the failure or malfunction has been corrected and the equipment is again in operation, the permittee shall notify the Director, Valley Regional Office, in writing.

(9 VAC 5-20-180 C)

- 42. **Violation of Ambient Air Quality Standard** - The permittee shall, upon request of the DEQ, reduce the level of operation or shut down a facility, as necessary to avoid violating any primary ambient air quality standard and shall not return to normal operation until such time as the ambient air quality standard will not be violated.

(9 VAC 5-20-180 I)

- 43. **Maintenance/Operating Procedures** - The permittee shall take the following measures in order to minimize the duration and frequency of excess emissions, with respect to air pollution control equipment, monitoring devices, and process equipment which affect such emissions:

- a. Develop a maintenance schedule and maintain records of all scheduled and non-scheduled maintenance.
- b. Maintain an inventory of spare parts.
- c. Have available written operating procedures for equipment. These procedures shall be based on the manufacturer's recommendations, at a minimum.
- d. Train operators in the proper operation of all such equipment and familiarize the operators with the written operating procedures. The permittee shall maintain records of the training provided including the names of trainees, the date of training and the nature of the training.

Records of maintenance and training shall be maintained on site for a period of five years and shall be made available to DEQ personnel upon request.

(9 VAC 5-50-20 E)

44. **Permit Suspension/Revocation** - This permit may be suspended or revoked if the permittee:
- a. Knowingly makes material misstatements in the application for this permit or any amendments to it;
 - b. Fails to comply with the conditions of this permit;
 - c. Fails to comply with any emission standards applicable to the equipment listed in Condition 2;
 - d. Causes emissions from this facility which result in violations of, or interferes with the attainment and maintenance of, any ambient air quality standard;
 - e. Fails to operate this facility in conformance with any applicable control strategy, including any emission standards or emission limitations, in the State Implementation Plan in effect on the date that the application for this permit is submitted;
 - f. Fails to install or operate this facility in accordance with the application for this permit or any amendments to it; or
 - g. Allows the permit to become invalid.
- (9 VAC 5-80-1210)
45. **Change of Ownership** - In the event of any change in control of ownership of the permitted source, the permittee shall notify the succeeding owner of the existence of this permit by letter and send a copy of that letter to the Director, Valley Regional Office.
(9 VAC 5-80-1240)
46. **Registration/Update** - Annual requirements to fulfill legal obligations to maintain current stationary source emissions data will necessitate a prompt response by the permittee to requests by the DEQ or the Board for information to include, as appropriate: process and production data, changes in control equipment, and operating schedules. Such requests for information from the DEQ will either be in writing or by personal contact. The availability of information submitted to the DEQ or the Board will be governed by applicable provisions of the Freedom of Information Act, §§ 2.1-340 through 2.1-348 of the Code of Virginia, § 10.1-1314 (addressing information provided to the Board) of the Code of Virginia, and 9 VAC 5-170-60 of the State Air Pollution Control Board Regulations. Information provided to federal officials is subject to appropriate federal law and regulations governing confidentiality of such information.
(9 VAC 5-170-60 and 9 VAC 5-20-160)

47. **Permit Copy** - The permittee shall keep a copy of this permit on the premises of the facility to which it applies.
(9 VAC 5-170-160)

ATTACHMENT A - Previously Permitted Equipment

Lime Loadout Facility:

- One Jeffery Crusher (30 Flextooth) rated at 50 tph (LS-C),
- One Midwestern Screen (MEV 510-5) rated at 60 tph (LS-S),
- One 36" Belt Conveyor rated at 150 tph (LS-CB-1),
- Three 36" Belt Conveyors, each rated at 200 tph (LS-CB-4, 5 and 6)
- Two 24" Belt Conveyors, each rated at 150 tph (LS-CB-2 and 3)
- One 24" Belt Conveyor rated at 50 tph (LS-CB-7)
- Five Storage Silos, each rated at 165 tons each (LS-SS-1, 2, 3, 4 and 5)
- One Storage Silo rated at 30 tons (LS-SS-6)
- One 16" Screw Conveyor, rated at 150 tph (SC-2)
- Three Loadout Spouts (LS-1, 2 and 3)
- Two fabric filter baghouses rated at 15,000 cfm each (LL-DC-1 and 2)

Control Equipment

Process Equipment

LP-DC-2533	Screen # 2 (LP-SC-2), Conveyor # 5 (LP-BC-5)
LP-DC-2525	Screen # 3 (LP-SC-3), Conveyor # 9 (LP-BC-9), Four Lime Storage Bins (LP-SB-1)
LP-DC-2204	Conveyor # 3 (LP-BC-3)
LP-DC-2504	Conveyor # 4 (LP-BC-4)
LL-DC-1	Pebble Lime Pulverizer Plant: Loadout Hammermill (LL-HM-1),
LP-DC-2106	Conveyor # 10 (LP-BC-10)
LP-DC-2341	Conveyor # 11 (LP-BC-11),

Global Stone Chemstone Corporation
Registration Number: 80504

	Conveyor # 12 (LP-EP-6), Conveyor # 14 (LP-BC-14), Conveyor # 15 (LP-BC-15)
LP-DC-2532	Conveyor # 13 (LP-BC-13)
LP-DC-2425	Screw Conveyors and Pneumatic Conveyors (LP-SW/PC), Dust Bin (LP-SB-2)
Fugitive	Screen #1 (LP-SC-1), Coal Mill (LP-CM-1), Conveyor # 1 (LP-BC-1), Conveyor #2 (LP-BC-2), Conveyor #6 (LP-BC-6), Conveyor #7 (LP-BC-7), Two Old Silos (LP-SB-3)
Four Module Baghouse LP-BH2405, 2406, 2407 and 2408	F.L. Smidth Rotary Kiln, 10 ft. dia. x 350 ft. long, 20.83 TPH (lime) (LP-RK-1) Associated conveyors, silos and handling equipment

ATTACHMENT B - Exempt Equipment

Control Equipment

Process Equipment

Fugitive

Drilling (MP-DR)

Fugitive

Primary 42" x 48" Jaw Crusher, 500 tons/hr, (MP-CR-1)

Fugitive

No. 2 Crusher, Allis Chalmers 16-50 gyratory, (MP-CR-2)

Fugitive

No. 1 Screen, Tyler F-900, 500 tons/hr, (MP-SC-1)

Fugitive

No. 2 Screen, Tyler F-800, 500 tons/hr, (MP-SC-2)

Fugitive

No. 3 Screen, Tyler F-800, 500 tons/hr, (MP-SC-3)

Fugitive

Belt Conveyors Numbers 2,3,4,7,8,9,11,12 and 13, (MP-BC)

Fugitive

Storage Bins (9), (MP-SB)

LL-DC-1

Pebble Lime Pulverizer Plant:
Conveyor # 8 (LP-BC-8)
Loadout Screen (LL-SC-1)
Loadout Storage Bins (LL-SB)